

# TruSignal™ AC Electrode Kits

## Technical Instructions



## Package Contents

- AC Myo Wire Harness (1-Site, 2-Site, 4-Site, or 6-Site) (cable length: 15cm, 30cm, 60cm)
- (1) M4 x 14 mm Clamp Screw
- Electrode Ground Wire Harness
- TruSignal AC Electrodes (dome size: paediatric, medium, or large)

## Optional Tools

- CP HXD (Electrode HexDriver) 3 mm hex key

## COMPATIBILITY

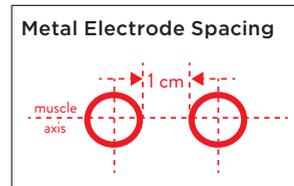
Compatible with the Espire Elbow Pro and Hybrid models.

## OVERVIEW

The Steeper TruSignal AC Electrode Kit provides proportional control to a prosthetic device. An electrode kit consists of a set of wire harnesses with TruSignal boards attached and remote metal electrodes. The TruSignal boards snap onto the electrodes.

## AC MYOELECTRODE PLACEMENT

Since the electrodes are independent, the clinician can place these where they want in the socket. Each site has 2 active electrodes. In general, each pair of electrodes should lie along the longitudinal axis of the muscle with an edge-to-edge spacing of not more than 1 cm. An additional pair of reference electrodes (grounds) should be located off-axis, away from the active electrodes where they will not interfere with muscle signals.



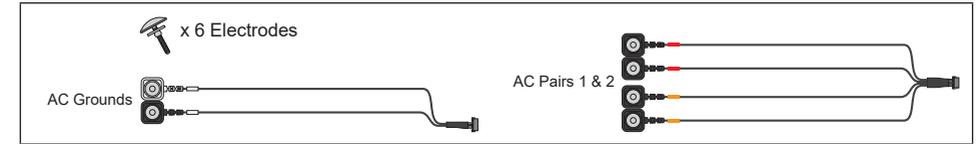
## ELECTRODE INSTALLATION

Refer to Espire Elbow Fabrication Instructions for detailed fabrication instructions (available at [www.steepergroup.com](http://www.steepergroup.com)).

## MYO SITE EXAMPLES

For easier site recognition, the coloured band on each wire identifies the electrode pair.

### Example 2-Site Kit:



**Note:** 1-site kits (not shown) include 4 electrodes and substitute the 2-Site AC Myo Wire Harness with a 1-Site (AC Pair 1 only).

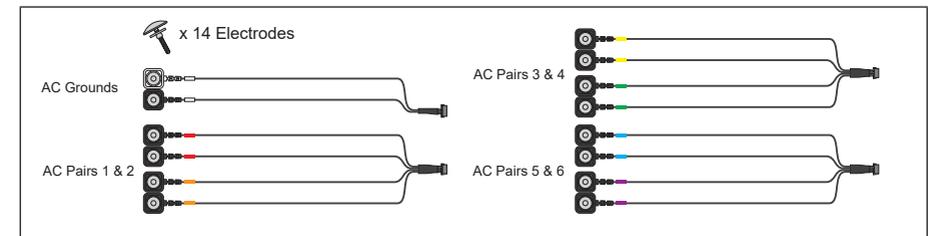
### Example 2-Site Myo Placement - Transhumeral

Electrode Type	Site Location
● AC Pair 1	Bicep
● AC Pair 2	Tricep
○ AC Grounds	Away from muscle signal



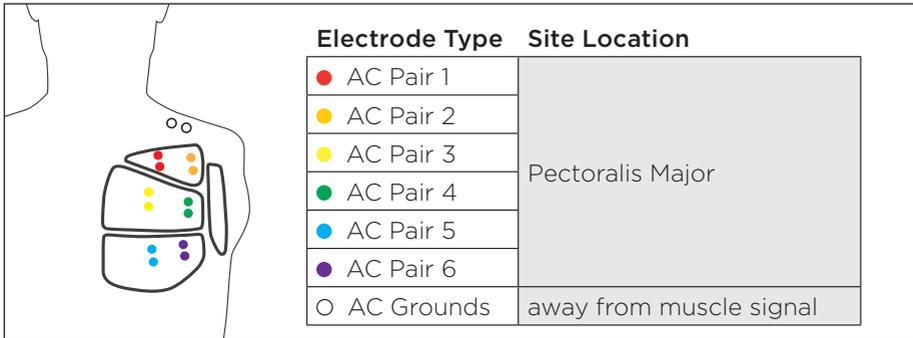
**Note:** 1-site myo placement (not shown) would locate AC Pair 1 on either the bicep or tricep.

### Example 6-Site Kit:



**Note:** 4-site kits (not shown) include 10 electrodes. AC Myo Wire Harness Pairs 5 & 6 not included.

## Example 6-Site Myo Placement (TMR) - Shoulder Disarticulation



**Note:** 4-site myo placement (not shown) do not include AC Pairs 5 & 6. Additional recommendations for site placement available.

## CONNECTION TO THE ESPIRE ELBOW

Refer to **Espire Elbow Technical Manual - Pro and Hybrid** for detailed instructions on input connections and electrode installation (available at [www.steepergroup.com](http://www.steepergroup.com)).

Refer to **Espire Elbow Hub App Instructions** for information on calibrating and programming the electrodes (available at [www.steepergroup.com](http://www.steepergroup.com)).

## WARRANTY

The TruSignal AC Electrode Kits are covered under the product category 'Input Devices' for a period of one year. Refer to Steeper Group Limited Warranty - Elbows or for more information visit [www.steepergroup.com](http://www.steepergroup.com). Refer to Espire Elbow Hub App Instructions for information on calibrating and programming the electrodes (available at [www.steepergroup.com](http://www.steepergroup.com)).



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